CLAIMS

What is claimed is:

1. A precision optical device, comprising:

first and second side panels, said first side panel having a hole formed therein;

a first reflector comprising a first reflecting surface and a mounting pin extending from a first edge of said first reflector, said mounting pin received within said hole formed in said first side panel for mounting said first reflector between said panels at a first end of said panels; and

a second reflector comprising at least a second reflecting surface, mounted between said side panels at a second end thereof in an orientation so that an incident light ray reflecting off of any of said reflecting surfaces is reflected to and off the other(s) of said reflecting surfaces in a direction substantially parallel to said incident light ray.

2. A precision optical device as recited in claim 1, said first reflector further comprising at least one mounting pad extending from at least a second edge thereof for mounting said first reflector to said device.

3. A precision optical device as recited in claim 2, said at least one mounting pad comprising first and second mounting pads.

4. A precision optical device as recited in claim 3, said first mounting pad located along said second edge of said first reflector and said second mounting pad located along a third edge of said first reflector.

5. A precision optical device as recited in claim 4, wherein said second and third edges of said first reflector define a common edge of said first reflector.

6. A precision optical device as recited in claim 5, said first edge of said first reflector being opposite said common edge of said first reflector.

7. A precision optical device as recited in claim 5, said first and second mounting pads being co-planar.

8. A precision optical device as recited in claim 5, said first and second mounting pads extending from said common edge in such manner as not to touch each other and have a portion of said common edge located therebetween.

9. A precision optical device as recited in claim 8, wherein said common edge of said first reflector does not touch said precision optical device when said first reflector is mounted to said precision optical device.

10. A precision optical device as recited in claim 1, said second reflector comprising a roof mirror assembly, comprising substantially, mutually perpendicular reflecting panels.

11. A precision optical device as recited in claim 10, wherein said first reflector is mounted to said device substantially perpendicular to said reflecting panels of said roof mirror so that a direction of said light ray after reflecting off of said roof mirror and said first reflector is opposite to a direction of said incident light ray.

12. A precision optical device as recited in claim 1, said second reflector further comprising a mounting pin for receipt within a hole formed in said second panel for mounting said second reflector between said panels.

13. A precision optical device as recited in claim 12, wherein when said second reflector is mounted between said panels said second reflecting surface is substantially parallel to said first reflecting surface of said first reflector so that a direction of said light ray after reflecting off of said first reflector and said second reflector is substantially the same as a direction of said incident light ray.

14. A precision optical device as recited in claim 13, said mounting pin configured to fit snugly into said hole.

15. A precision optical device as recited in claim 1, said mounting pin configured to fit snugly into said hole.

16. A precision optical device as recited in claim 1, wherein all components of said device are made of the same material.

17. A precision optical device as recited in claim 16, wherein said material is quartz.